

HANDOUTS: Mixing Cement (2 pages)
Skill Builders: Conversion, Percentages

IN THE WORKPLACE: Errors in conversion can result in significant costs to a company in lost time and product. Accurately taking, interpreting and converting measurements between imperial and metric systems are fundamental skills across the trades.

Refer to the **Product Label** below to complete the tasks and answer the following questions. Show your calculations.

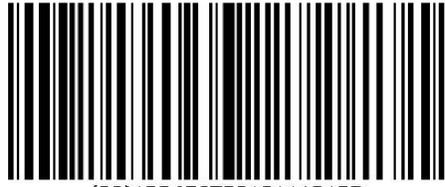
1. Convert the packet size to grams.
2. Convert 50-70 pounds to metric.
3. What is the recommended ratio of packets to kilos?
4. You have 160 kg of cement product. How many packets of QuickSET are needed?
5. The cement mixer has a 3.5 cubic foot capacity and will hold two 90 pounds bags of mix with water. To the nearest whole number, how many loads do you need to mix to use the 160 kg of cement product?

QuickSET

WATER REDUCING ADDITIVE

www.QuickSET.ca

Made in Canada.



(00)123456789101112133

Directions: Place desired amount of water into mixing container. Add half cement product into mixing container and mix with mechanical mixer. Continue mixing while adding **QuickSET** powder to mixing container. Add remaining cement product into mixing container. **DO NOT** exceed 4 packets per 50 lb. to 70 lb. bag of cement product. Too much water in the mixture may cause aggregate segregation which can reduce strength. 1 packet contains 2.1 ounces.

Ref: Bow Valley College. (2020). QuickSET Product Label. Calgary, Canada: Author.